

121603  
3281 U.S.P.T.O.

# UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 C.F.R. 1.53(b))

Attorney Docket No. 31759-199753

First Inventor Masahiro MACHIDA et al.

Title HEAT RADIATING SHEET

Express Mail Label No.

**APPLICATION ELEMENTS**

See MPEP chapter 600 concerning utility patent application contents.

1.  Fee Transmittal Form (e.g., PTO/SB/17)  
*(Submit an original and a duplicate for fee processing)*
2.  Applicant claims small entity status.  
See 37 CFR 1.27.
3.  Specification [Total Pages 19]  
*(preferred arrangement set forth below)*  
 - Descriptive title of the Invention  
 - Cross References to Related Applications  
 - Statement Regarding Fed sponsored R & D  
 - Reference to sequence listing, a table, or a computer program listing appendix  
 - Background of the Invention  
 - Brief Summary of the Invention  
 - Brief Description of the Drawings (*if filed*)  
 - Detailed Description  
 - Claim(s)  
 - Abstract of the Disclosure
4.  Drawing(s) (35 U.S.C. 113) [Total Sheets 7]
5. Oath or Declaration [Total Pages ]  
 a.  Newly executed (original or copy)  
 b.  Copy from a prior application (37 CFR 1.63 (d))  
*(for a continuation/divisional with Box 18 completed)*  
 i.  **DELETION OF INVENTOR(S)**  
 Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
6.  Application Data Sheet. See 37 CFR 1.76
- 6a.  Priority is claimed under the provisions of 35 U.S.C. § 119  
Appln No. JP2002-363326 filed in Japan on December 16, 2002.  
Appln No. \_\_\_\_\_ filed in \_\_\_\_\_ on \_\_\_\_\_

**ADDRESS TO:** Commissioner for Patents  
Box Patent Application  
Alexandria, VA 22313-1450

7.  CD-ROM or CD-R in duplicate, large table or Computer Program (*Appendix*)  
 8. Nucleotide and/or Amino Acid Sequence Submission  
*(if applicable, all necessary)*  
 a.  Computer Readable Form (CRF)  
 b. Specification Sequence Listing on:  
 i.  CD-ROM or CD-R (2 copies); or  
 ii.  paper  
 c.  Statements verifying identity of above copies

**ACCOMPANYING APPLICATIONS PARTS**

9.  Assignment Papers (cover sheet & document(s))  
 10.  37 C.F.R. §3.73(b) Statement  Power of Attorney  
 11.  English Translation Document (*if applicable*)  
 12.  Information Disclosure Statement (IDS)/PTO-1449  Copies of IDS Citations  
 13.  Preliminary Amendment  
 14.  Return Receipt Postcard (MPEP 503)  
*(Should be specifically itemized)*  
 15.  Certified Copy of Priority Document(s)  
*(if foreign priority is claimed)*  
 16.  Request and Certification under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.  
 17.  Other: \_\_\_\_\_

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

Continuation  Divisional  Continuation-in-part (CIP) of prior application No: \_\_\_\_\_ / \_\_\_\_\_  
 Prior application information: Examiner \_\_\_\_\_ Group / Art Unit: \_\_\_\_\_

For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

**20. CORRESPONDENCE ADDRESS**

<input checked="" type="checkbox"/> Customer Number or Bar Code Label	26694 PATENT TRADEMARK OFFICE	or <input type="checkbox"/> Correspondence address below
---	----------------------------------	--

Name	VENABLE				
Address	P.O. Box 34385				
City	Washington	State	D.C.	Zip Code	20043-9998
Country	U.S.A	Telephone	202-344-4000	Fax	202-344-8300

Name (Print/Type)	Michael A. Sartori, Ph.D.	Registration No. (Attorney/Agent)	41,289
Signature			Date December 16, 2003

10/735739  
121603  
10/735739121603  
10/735739

13281



Approved for use through 10/31/2002. OMB 0651-0032

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

U.S.PTO

# FEE TRANSMITTAL for FY 2003

Patent fees are subject to annual revision.

TOTAL AMOUNT OF PAYMENT (\$ 770)

Complete If Known

Application Number	NOT YET ASSIGNED
Filing Date	December 16, 2003
First Named Inventor	Masahiro MACHIDA
Examiner Name	NOT YET ASSIGNED
Group / Art Unit	NOT YET ASSIGNED
Attorney Docket No.	31759-199753

METHOD OF PAYMENT (check one)					FEE CALCULATION (continued)																																																																																																																																																	
1. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any over payments to:  Deposit Account Number <input type="text" value="22-0261"/>  Deposit Account Name <input type="text" value="VENABLE LLP"/>  <input type="checkbox"/> Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17 <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27					3. ADDITIONAL FEES <table border="1"> <thead> <tr> <th>Large Entity Fee Code (\$)</th> <th>Small Entity Fee Code (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>1051</td><td>130</td><td>2051</td><td>65 Surcharge - late filing fee or oath</td></tr> <tr><td>1052</td><td>50</td><td>2052</td><td>25 Surcharge - late provisional filing fee or cover sheet.</td></tr> <tr><td>1053</td><td>130</td><td>1053</td><td>130 Non-English specification</td></tr> <tr><td>1812</td><td>2,520</td><td>1812</td><td>2,520 For filing a request for reexamination</td></tr> <tr><td>1804</td><td>920*</td><td>1804</td><td>920* Requesting publication of SIR prior to Examiner action</td></tr> <tr><td>1805</td><td>1,840*</td><td>1805</td><td>1,840* Requesting publication of SIR after Examiner action</td></tr> <tr><td>1251</td><td>110</td><td>2215</td><td>55 Extension for reply within first month</td></tr> <tr><td>1252</td><td>420</td><td>2252</td><td>210 Extension for reply within second month</td></tr> <tr><td>1253</td><td>950</td><td>2253</td><td>475 Extension for reply within third month</td></tr> <tr><td>1254</td><td>1,480</td><td>2254</td><td>740 Extension for reply within fourth month</td></tr> <tr><td>1255</td><td>2010</td><td>2255</td><td>1005 Extension for reply within fifth month</td></tr> <tr><td>1401</td><td>330</td><td>2401</td><td>165 Notice of Appeal</td></tr> <tr><td>1402</td><td>330</td><td>2402</td><td>165 Filing a brief in support of an appeal</td></tr> <tr><td>1403</td><td>290</td><td>2403</td><td>145 Request for oral hearing</td></tr> <tr><td>1451</td><td>1,510</td><td>1451</td><td>1,510 Petition to institute a public use proceeding</td></tr> <tr><td>1452</td><td>110</td><td>2452</td><td>55 Petition to revive – unavoidable</td></tr> <tr><td>1453</td><td>1,330</td><td>2453</td><td>665 Petition to revive – unintentional</td></tr> <tr><td>1501</td><td>1,330</td><td>2501</td><td>665 Utility issue fee (or reissue)</td></tr> <tr><td>1502</td><td>480</td><td>2502</td><td>240 Design issue fee</td></tr> <tr><td>1503</td><td>640</td><td>25403</td><td>320 Plant issue fee</td></tr> <tr><td>1460</td><td>130</td><td>1460</td><td>130 Petitions to the Commissioner</td></tr> <tr><td>1807</td><td>50</td><td>1807</td><td>50 Processing fee under 37 CFR 1.17 (q)</td></tr> <tr><td>1808</td><td>180</td><td>1808</td><td>180 Submission of Information Disclosure Stmt</td></tr> <tr><td>8021</td><td>40</td><td>8021</td><td>40 Recording each patent assignment per property (times number of properties)</td></tr> <tr><td>1809</td><td>770</td><td>2809</td><td>385 Filing a submission after final rejection (37 CFR § 1.129(a))</td></tr> <tr><td>1810</td><td>770</td><td>2810</td><td>385 For each additional invention to be examined (37 CFR § 1.129(b))</td></tr> <tr><td>1801</td><td>770</td><td>2801</td><td>385 Request for Continued Examination (RCE)</td></tr> <tr><td>1802</td><td>900</td><td>1802</td><td>900 Request for expedited examination of a design application</td></tr> <tr><td colspan="5">Other fee (specify) _____</td></tr> <tr> <td colspan="5">SUBTOTAL (1) (\$ 770)</td> <td colspan="5">SUBTOTAL (3) (\$ 0)</td> </tr> <tr> <td colspan="10">*Reduced by Basic Filing Fee Paid</td> </tr> </tbody> </table>					Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid	1051	130	2051	65 Surcharge - late filing fee or oath	1052	50	2052	25 Surcharge - late provisional filing fee or cover sheet.	1053	130	1053	130 Non-English specification	1812	2,520	1812	2,520 For filing a request for reexamination	1804	920*	1804	920* Requesting publication of SIR prior to Examiner action	1805	1,840*	1805	1,840* Requesting publication of SIR after Examiner action	1251	110	2215	55 Extension for reply within first month	1252	420	2252	210 Extension for reply within second month	1253	950	2253	475 Extension for reply within third month	1254	1,480	2254	740 Extension for reply within fourth month	1255	2010	2255	1005 Extension for reply within fifth month	1401	330	2401	165 Notice of Appeal	1402	330	2402	165 Filing a brief in support of an appeal	1403	290	2403	145 Request for oral hearing	1451	1,510	1451	1,510 Petition to institute a public use proceeding	1452	110	2452	55 Petition to revive – unavoidable	1453	1,330	2453	665 Petition to revive – unintentional	1501	1,330	2501	665 Utility issue fee (or reissue)	1502	480	2502	240 Design issue fee	1503	640	25403	320 Plant issue fee	1460	130	1460	130 Petitions to the Commissioner	1807	50	1807	50 Processing fee under 37 CFR 1.17 (q)	1808	180	1808	180 Submission of Information Disclosure Stmt	8021	40	8021	40 Recording each patent assignment per property (times number of properties)	1809	770	2809	385 Filing a submission after final rejection (37 CFR § 1.129(a))	1810	770	2810	385 For each additional invention to be examined (37 CFR § 1.129(b))	1801	770	2801	385 Request for Continued Examination (RCE)	1802	900	1802	900 Request for expedited examination of a design application	Other fee (specify) _____					SUBTOTAL (1) (\$ 770)					SUBTOTAL (3) (\$ 0)					*Reduced by Basic Filing Fee Paid									
Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid																																																																																																																																																			
1051	130	2051	65 Surcharge - late filing fee or oath																																																																																																																																																			
1052	50	2052	25 Surcharge - late provisional filing fee or cover sheet.																																																																																																																																																			
1053	130	1053	130 Non-English specification																																																																																																																																																			
1812	2,520	1812	2,520 For filing a request for reexamination																																																																																																																																																			
1804	920*	1804	920* Requesting publication of SIR prior to Examiner action																																																																																																																																																			
1805	1,840*	1805	1,840* Requesting publication of SIR after Examiner action																																																																																																																																																			
1251	110	2215	55 Extension for reply within first month																																																																																																																																																			
1252	420	2252	210 Extension for reply within second month																																																																																																																																																			
1253	950	2253	475 Extension for reply within third month																																																																																																																																																			
1254	1,480	2254	740 Extension for reply within fourth month																																																																																																																																																			
1255	2010	2255	1005 Extension for reply within fifth month																																																																																																																																																			
1401	330	2401	165 Notice of Appeal																																																																																																																																																			
1402	330	2402	165 Filing a brief in support of an appeal																																																																																																																																																			
1403	290	2403	145 Request for oral hearing																																																																																																																																																			
1451	1,510	1451	1,510 Petition to institute a public use proceeding																																																																																																																																																			
1452	110	2452	55 Petition to revive – unavoidable																																																																																																																																																			
1453	1,330	2453	665 Petition to revive – unintentional																																																																																																																																																			
1501	1,330	2501	665 Utility issue fee (or reissue)																																																																																																																																																			
1502	480	2502	240 Design issue fee																																																																																																																																																			
1503	640	25403	320 Plant issue fee																																																																																																																																																			
1460	130	1460	130 Petitions to the Commissioner																																																																																																																																																			
1807	50	1807	50 Processing fee under 37 CFR 1.17 (q)																																																																																																																																																			
1808	180	1808	180 Submission of Information Disclosure Stmt																																																																																																																																																			
8021	40	8021	40 Recording each patent assignment per property (times number of properties)																																																																																																																																																			
1809	770	2809	385 Filing a submission after final rejection (37 CFR § 1.129(a))																																																																																																																																																			
1810	770	2810	385 For each additional invention to be examined (37 CFR § 1.129(b))																																																																																																																																																			
1801	770	2801	385 Request for Continued Examination (RCE)																																																																																																																																																			
1802	900	1802	900 Request for expedited examination of a design application																																																																																																																																																			
Other fee (specify) _____																																																																																																																																																						
SUBTOTAL (1) (\$ 770)					SUBTOTAL (3) (\$ 0)																																																																																																																																																	
*Reduced by Basic Filing Fee Paid																																																																																																																																																						
**or number previously paid, if greater; For Reissues, see above																																																																																																																																																						

## SUBMITTED BY

Complete (if applicable)

Name (Print/Type)	Michael A. Sartori, Ph.D.	Registration No. Attorney/Agent)	41,289	Telephone	(202) 344-4000
Signature			Date	December 16, 2003	

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.  
 SEND TO: Commissioner for Patents, Mail Stop Patent Application, Alexandria, VA 22313-1450.